

**WHAT IS CLAIMED IS:**

1. A sliding lens cap apparatus with close-up and start-up functions, equipped in a camera, the camera including a lens and a lens cap, the lens including a lens pull rod for adjusting the focal length of the lens, the sliding lens cap apparatus comprising:

5           an orientation rod fixedly coupled to the camera, the orientation rod comprising a close orientation indent, an open orientation indent, and a close-up orientation indent;

              a fixed rod fixedly coupled to the camera, the fixed rod and the orientation rod forming a track for the lens to move along; and

10           a sliding rod capable of being movably coupled to the fixed rod, the sliding rod comprising a lens frame, the lens frame coupled to the lens pull rod for adjusting the focal length of the lens;

15           wherein when the lens cap is located at the close orientation indent, the lens cap is covered and the camera is in a close mode, when the lens cap is located at the open orientation indent, the lens cap is open and the camera is in an open mode, and when the lens cap is located at the close-up orientation indent, the camera is in a close-up mode.

20           2. The apparatus according to claim 1, wherein the sliding rod further comprises a sliding indent coupled to the lens cap to aid the lens cap in promoting the sliding rod to shift positions.

3. The apparatus according to claim 2, wherein the lens cap further comprises a promoting wedge and when the lens cap moves between the open orientation indent and the close-up orientation indent, the promoting wedge is for seizing the sliding indent.

5 4. The apparatus according to claim 1, wherein the lens cap further comprises an orientation wedge for seizing the close orientation indent, the open orientation indent, or the close-up orientation indent.

5. The apparatus according to claim 1, wherein the camera is a digital camera.

6. The apparatus according to claim 1, wherein the focal length of the lens is changeable and the focal length when the lens cap is positioned at the close-up orientation indent is longer than the focal length when the lens cap is positioned at the open orientation indent.

10 7. A camera with close-up and start-up functions, comprising a sliding lens cap apparatus, a lens, a base and a lens cap, the lens including a lens pull rod for adjusting the focal length of the lens, the sliding lens cap apparatus comprising:

an orientation rod fixedly coupled to the camera, the orientation rod comprising a close orientation indent, an open orientation indent, and a close-up orientation indent;

20 a fixed rod fixedly coupled to the camera, the fixed rod and the orientation rod forming a track for the lens to move along the track; and

a sliding rod capable of being movably coupled to the fixed rod, the sliding rod comprising a lens frame, the lens frame coupled to the lens pull rod for adjusting the focal length of the lens;

wherein when the lens cap is located at the close orientation indent, the lens cap covers the lens and the camera is in a close mode, when the lens cap is located at the open orientation indent, the lens cap is uncovered from the lens and the camera is in an open mode, and when the lens cap is located at the close-up orientation indent, the camera is in a close-up mode.

8. The camera according to claim 7, wherein the sliding rod further comprises a sliding indent coupled to the lens cap to aid the lens cap in promoting the sliding rod to shift positions.

9. The camera according to claim 8, wherein the lens cap further comprises a promoting wedge and when the lens cap moves between the open orientation indent and the close-up orientation indent, the promoting wedge is for seizing the sliding indent.

10. The camera according to claim 7, wherein the lens cap further comprises an orientation wedge for seizing the close orientation indent, the open orientation indent, or the close-up orientation indent.

11. The camera according to claim 7, wherein the camera is a digital camera.

12. The camera according to claim 7, wherein the lens further comprises a post and

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when the lens cap is located at the close orientation indent or the open orientation indent, the post shores up the a low plane of the base.

13. The camera according to claim 12, wherein when the lens cap is located at the close-up orientation indent, the post shores up a high plane of the base to change the  
5 focal length of the lens so that the focal length when the post shores up the high plane is longer than the focal length when the post shores up the low plane.

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